

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A discharge surface treatment method, the method comprising the steps of:

generating an electric discharge, in a pulse form, between an electrode and a workpiece in a working liquid containing no carbon components, the electrode being formed with a material having a solid lubricant effect; and

adhering and depositing the material of the electrode consumed or melted due to the generated electric discharge onto a surface of the workpiece thereby forming a coat having lubricant effect on the surface of the workpiece,

wherein the material having solid lubricant effect comprises at least one of molybdenum disulfide, boron nitride, tungsten disulfide, gold, ~~lead~~, indium, and a perfluoropolyether (PFPE) ~~resin compound of carbon and fluorine~~.

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3. (Original) The surface treatment method using electric discharge according to claim 1, wherein the working liquid containing no carbon components is water.

4. (Currently Amended) ~~In combination,~~ An electric discharge apparatus comprising:
an electrode for discharge surface treatment of a workpiece; and
a working liquid; in which electric discharge between said electrode ~~carrying out a~~
~~surface treatment using electric discharge in said working liquid and said workpiece is carried~~
out, said working liquid containing no carbon components, and the electrode comprising a
powder compressed electrode obtained by compression-molding powder of at least one of
molybdenum disulfide, boron nitride, tungsten disulfide, gold, ~~lead~~, indium, and a
perfluoropolyether (PFPE) resin ~~compound of carbon and fluorine~~.